

CLAIM AMENDMENTS

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Please amend claims and add new claims as follows:

1. (Currently Amended) A process for controlling at least two ~~or more~~ properties of a lubricant or working fluid for use in a system in which operating conditions change which process comprises:
 - (i) providing a base fluid in which the ~~two or more~~ properties are optimal for "warm" operating conditions;
 - (ii) providing a diluent which is miscible with said base fluid under all system operating conditions; and
 - (iii) reversibly diluting said base fluid with the diluent in response to change in system operating conditions.

2. (Currently Amended) The process of claim 1 in which ~~Process according to claim 1,~~ wherein the ~~two or more~~ properties are viscosity and at least one ~~or more~~ additional properties selected from the group consisting of traction coefficient, compressibility, lubricating film thickness ~~or~~ and pressure response of viscosity.

3. (Currently Amended) The process of claim 1 in which ~~Process according to claim 1 or claim 2,~~ wherein the base fluid has a traction coefficient which is greater than 0.08 (at 2.2 % SRR and 1.125 GPa) ~~and a viscosity of less than 100 mPas in the temperature range 90 to 150 °C.~~

4. (Currently Amended) The process of claim 1 in which ~~Process according to any one of claims 1 to 3,~~ wherein the base fluid comprises a hydrogenated mixture of dimers and trimers of α -methyl styrene.

5. (Currently Amended) The process of claim 1 in which ~~Process according to claim 1 or claim 2,~~ wherein the base fluid comprises glycerol and one or more additional components selected from the group consisting of alkylene glycols, ~~and/or~~ polyoxyalkylene glycols, and mixtures thereof.

6. (Currently Amended) The process of claim 1 in which ~~Process according to any one of claims 1 to 4, wherein~~ the diluent is chosen from a fluid comprising a mixture of cis and trans isomers of decahydronaphthalene and a fluid comprising methyl-substituted and ethyl-substituted cyclohexanes with 9 carbon atoms on average.
7. (Currently Amended) The process of claim 1 in which ~~Process according to any one of claims 1 to 4, wherein~~ the diluent comprises a mixture of hydrocarbons and/or organic esters having a boiling range within the range of from 50 °C to 200 °C.
8. (Currently Amended) The process of claim 1 in which ~~Process according to claim 5, wherein~~ the diluent is water.
9. (Currently Amended) A process for lubricating a system in which operating conditions change which process comprises:
- (i) controlling at least two or more properties of a lubricant ~~in accordance with the according to the process of claim 1 any one of the preceding claims;~~ and
 - (ii) applying the resultant lubricant to the system.
10. (Currently Amended) A process for providing a working fluid to a system in which operating conditions change which process comprises:
- (i) controlling at least two or more properties of the working fluid ~~in accordance with the according to the process of claim 1 any one of claims 1 to 8;~~ and
 - (ii) supplying the resultant working fluid to the system.
11. (Currently Amended) The A process according to any one of the preceding claims of claim 1 in which ~~wherein~~ the step of reversible dilution involves a step of removing diluent from a mixture of base fluid and diluent by evaporation or distillation and energy generated by the system is used to provide at least part of the energy required for this step.
12. (Currently Amended) The process of claim 11 in which ~~A process according to claim 11 wherein~~ the energy generated by the system is supplied from at least one or more of:
- (i) hot water from the system cooling system;

- (ii) lubricant or working fluid that has already passed through an evaporation or distillation stage;
- (iii) heat of ~~vaporisation~~ vaporization from hot ~~vapour~~ vapor in a distillation or evaporation chamber;
- (iv) exhaust gases; and
- (v) an electrical heating stage.

13. (Currently Amended) An apparatus for carrying out the process of controlling at least two properties of a lubricant or working fluid for use in a system in which operating conditions change comprising: any one of the preceding claims which comprises:

- (i) reservoir means comprising a diluent;
- (ii) a mixing zone comprising a base fluid;
- (iii) dispensing means for supplying the diluent from the reservoir means to the mixing zone;
- (iv) separating means for removing diluent from the mixing zone by vaporisation, condensation and storage of diluent for re-use; and
- (v) means enabling the contents of the mixing zone to contact an operating component of the system.

14. (Currently Amended) A hydraulic system containing ~~Use of~~ a working fluid composition comprising water as a diluent and a base fluid which comprises glycerol and one or more additional components selected from the group consisting of alkylene glycols, and/or polyoxyalkylene glycols, and mixtures thereof ~~in a hydraulic system.~~

15. (New) The process of claim 1 in which the base fluid has a viscosity of less than 100 mPas in the temperature range 90 °C to 150 °C.

16. (New) The process of claim 3 in which the base fluid has a viscosity of less than 100 mPas in the temperature range 90 °C to 150 °C.

17. (New) The process of claim 2 in which the base fluid has a traction coefficient which is greater than 0.08 (at 2.2 % SRR and 1.125 GPa).

18. (New) The process of claim 2 in which the base fluid comprises a hydrogenated mixture of dimers and trimers of α -methyl styrene.
19. (New) The process of claim 17 in which the base fluid has a viscosity of less than 100 mPas in the temperature range 90 °C to 150 °C.
20. (New) A process for lubricating a system in which operating conditions change which process comprises:
- (i) controlling at least two properties of a lubricant according to the process of claim 2;
 - and
 - (iii) applying the resultant lubricant to the system.
21. (New) A process for providing a working fluid to a system in which operating conditions change which process comprises:
- (iii) controlling at least two properties of the working fluid according to the process of claim 2; and
 - (iv) supplying the resultant working fluid to the system.